# SHERMAN, S.G. Status and prospects for employment of patients with pulmonary tuberculosis in Leningrad. Probl.tub. 38 no.7:8-15 '60. (MIRA 14:1) 1. Iz organizatsionno-metodicheskogo otdela (rukovoditel' G.E. Al') Leningradskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - prof. A.D. Semenov). (TUBERCULOUS-EMPLOYMENT)

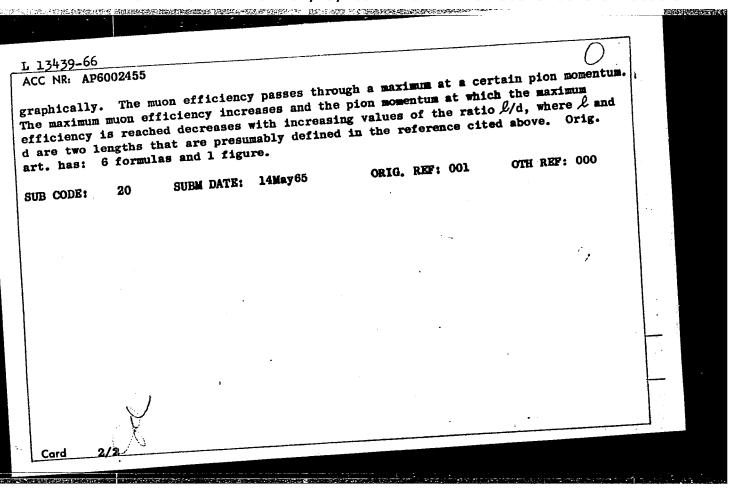
GOL'DFARB, M.L.; SHERMAN, S.G.

Working capacity and employment of patients subjected to total or partial pneumonectomy in pulmonary tuberculosis. Vest. khir. 85 (MIRA 14:1) no. 7:68-73 Je '60. (DISABILITY EVALUATION)

(LUNDS—SURGERY) (DISABILITY EVALUATION)

EU WEIGHAUNG BERNET	-32-13-5	05/4/14/2004
L 13439-66 EWT(d)/EWT(m)/T/EWA(m)-2 IJP(c) ACC NR: AP6002455 SOURCE CODE: UR/0057/65/035/012/2248/2249		
AUTHOR: Abrosimov, N.K.; Nikolayeva, V.A.; Sherman, S.G.  ORG: Physico-technical Institute im. A.F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR)		
TITE Annuarimente colculation of the efficiency of a mu-meson duct		
SOURCE: Zhurnal tekhnicheskoy fiziki, v.35, no. 12, 1965, 2248-2249		
TOPIC TAGS: mu meson, pi meson, magnetic quadrupole lens, particle beam, mathematic		
ABSTRACT: N.K.Abrosimov, D.M.Kaminker, I.A.Petrov, and S.G.Sherman (ZhTF, 34, 313, 1964) have proposed a method for estimating the efficiency of a magnetic quadrupole lens muon duct. This method involves evaluation of a triple integral. Here it is		
pointed out that the muon capture efficiency, which is a periodic function of z, is actually nearly independent of z when the pion momentum is high (z is presumably a		
coordinate measured along the duct; the notation of the earlier paper is employed and the reader is permitted to guess what the symbols mean), and that by assuming this quantity to be independent of z one can reduce the triple integral to a double in-		
tegrall If the pion momentum scatter is small one can further reduce the triple integral to a single integral. The muon efficiencies of three ducts of different design were calculated as functions of the pion momentum and the results are presented		
Card 1/2 UDC: 537.533.33		

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120006-3"



CHARUSHIN, G.V.; SHERMAN, S.I.

Two ways of speeding up the construction process of fairty diagrams. Sov.geol. 4 no.9:108-114 S '51.

1. Vostochno-Sibirskiy goologicheskiy institut Sibirskogo otdeleniya AN SSSR.

(Coology, Structural-Graphic methods)

(Petrography)

KHRENOV, P.M.; CHERNOV, Yu.A.; SHERBAR, S.I.

Conference of young geologists of the Institute of the Earth's Crust.
Geol.i geofiz. no.7:117-119 '62. (MIRA 16:10)

### 39311 SHERMAN, S. I.

Preparaty protiv malokroviya. Sov. meditsina, 1949, No 12, s. 29-30

a. Meditsinskaya mikrobiologiya, immunologiya i parazitologiya. Epidemiologiya

SHERMAN, S.I.; LEVINA, D.A.

Effects of liver extract therapy in pernicious anemia. Klin.
med., Moskva no.3:81-82 Mr '50. (CIML 19:2)

1. Leningrad.

SHERMAN, S.I.

Classification of anemia. Klin.med., Moskva no.4:30-39 Ap '50. (CIML 19:3)

1. Of the Hematological Clinic (Head -- Prof. S.I.Sherman) of the Leningrad Order of the Red Banner of Labor Institute of Blood Transfusion (Director -- Docent V.V.Kukharchik; Scientific Director-- Prof. A.N.Filatov).

SHERVAN, S. I. Prof.

Anemia

Relation between gastric polyposis and Byermer's anemia. Klin. med. 30 No. 7, July

9. Monthly List of Russian Accessions, Library of Congress, December

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7

SHERMAN, S. I. (PROF)	USSR/Medicine - Post-Transfusion Hepatitis Dec 53	"The Prophylaxis of Post-Transfusion Virus Hepatitis," Prof S. I. Sherman, S. I. Diakonovich, I. A. Yurikas, A. V. Blinova, A. V. Alekseyeva, R. S. Germant, Leningrad Sci-Res Inst of Blood Transfn; Div of Virol, Inst Exptl Med, Acad Med Sci USSR, Leningrad	Klin Med, Vol 31, No 12, pp 57-61	Describes results of lab work on post-transfusion hepatitis conducted in 1946-1952. States that lab findings revealed the superiority of the qualitative bilirubin blood test (direct reaction)over the 274728	quantitative test in the detn of a pre-jaundice or post-jaundice condition in blood lonors.	
THE PARTY OF THE P	\$13,52°4		23.5			

SHERMANN, S.I., professor; KISELEV, A.Ye., dotsent; PEREPLETCHIK, R.R., kandidat tekhnicheskikh nauk; POVERGO, N.S.

Results of treating pernicious anemia with campolon derived from marine animals. Klin. med. 32 no.6:53-57 Je \*54. (MLRA 7:8)

1. Leningrad; iz gematologicheskoy kliniki (zav.-prof. S.I. Sherman), Leningradekogo nauchno-issledovatel\*skogo instituta perelivaniya krovi. (ANEMIA, PERNICIOUS, therapy

\*campolon

(LIVER EXTRACTS, therapeutic use
\*compolon in pernicious anemia)

SHERMAN, S.I., prof.; ZHISLINA, Z.G.

Red blood picture in peptic ulcer. Akt.vop.perel.krovi no.4:198-200

155. (MIRA 13:1)

1. Gematologicheskaya klinika Leningradskogo instituta perelivaniya krovi.

(PEPTIC ULCER) (ERYTHREMIA)

### "APPROVED FOR RELEASE: 07/13/2001 CIA

CIA-RDP86-00513R001549120006-3

"Comparative Evaluation of the Effectiveness of Certain Methods for the Therapy of Chronic Leukosis Report 1: Therapy of Chronic Leukosis by X Rays," by Prof S. I. Sherman, Docent D. S. Kuz'min, L. M. Rozanova, A. N. Kiseleva, N. S. Fovergo, and A. D. Vakulenko (Reported at the expanded plenum of the Central Order of Lenin Institute of Hematology and Blood Transfusion on 15 Dec 1954 and at the Conference of the Leningrad Department of the All-Union Therapeutic Society imeni S. P. Botkin on 15 Nov 1955), Problemy Gematologii i Perelivaniya Krovi, Vol 2, No 1, Jan/Feb 57, pp 28-32

Experimental results classified into two tables showing the response of myelosis and lymphadenosis indicate that prolonged fractional irradiation of patients suffering from chronic leukosis with small doses of X rays (100 r) in combination with transfusion of concentrated suspensions of erythrocytes is the most expedient and effective method. This method gives good therapeutic effects without complications such as symptoms of radiation sickness.

SHERMAN, S.I., professor; KUZ'MIN, D.S., dotsent; ROZANOVA, L.M.; KISELEVA, A.M.; POVERGO, N.S.; VAKULENKO, A.D.

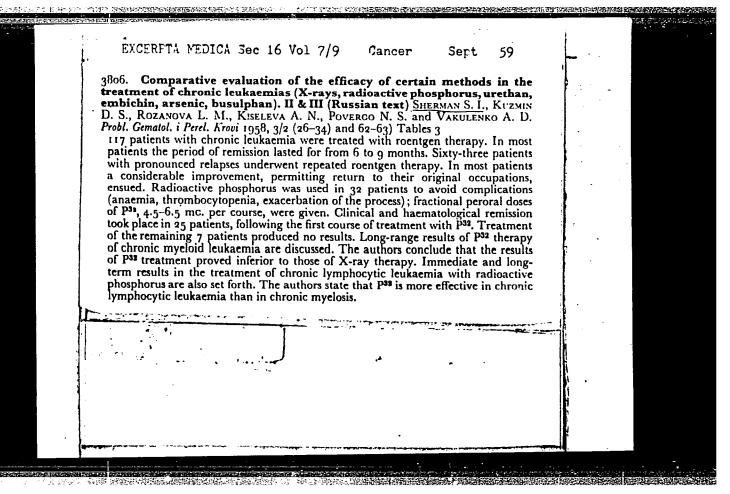
Comparative evaluation of the effectiveness of various methods of treating chronic leucosis. Report No.1: Treatment of chronic leucosis by X rays [with summary in English, p. 64] Probl. gemat. i perel. krovi 2 no.1:28-32 Ja-F '57 (MIRA 10:4)

1. Iz gematologicheskoy kliniki (zav.-prof. S.I. Sherman)
Leningradskogo ordena Trudovogo Krasnogo Znameni nauchnoissledovatel'skogo instituta perelivaniia krovi (dir.-dotsent
A.D. Belyakov; nauchnyy rukovoditel'-chlen-korrespondent AMN SSSR
prof. A.N. Filatov)

(LEUKEMIA, ther.
radiother. of chronic leukemia)

radiother. of chronic leukemia) (RADIOTHERAPY, in various dis. leukemia, chronic)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120006-3"



SHERMAN, S.I., prof.; RABINOVICH, S.I.

The classification of Werlhof's disease. Probl. gemat. i perel. krovi 3 no.5:17-20 S-0 '58. (MIRA 11:11)

1. Iz gematologicheskoy kliniki (zav. - prof. S. I. Sherman) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel skogo instituta perelivaniya króvi (dir. - dots. A.D. Belyakov, nauchnyy rukovoditel\*
- chlen-korrespondent AMN SSSR prof. A.N. Filatov).

(PURPURA, THROMBOPENIC.

classif. on basis of funct. state of megakaryocytes & on clin. course (Rus))

(BONE MARROW, physiology

megakaryocyte funct. state, evaluation in classif. of thrombopenic purpuras (Rus))

TUSHINSKIY, Mikhail Dmitriyevich; YAROSHEVSKIY, Arnol'd Yakovlevich.
Prinimali uchastiye: PILATOV, A.N.; AKKEMAN, V.V., doktor
med.nauk; SHEMAN, S.I., prof.; TSINCERMAN, H.A. MYASSIKOV,
med.nauk; SHEMAN, S.I., prof.; TSINCERMAN, H.A. MYASSIKOV,
red.

[Blood system diseases] Bolezni sistemy krovi. Moskva, Gos.
(MIRA 12:9)
izd-vo med.lit-ry. 1959. 386 p.

1. Chlen-korrespondent AMN SSSR (for Filatov). 2. Deystvitel'nyy
chlen AMN SSSR (for Myasnikov).
(BLOOD-DISEASES)

SHERMAN, S.I., prof.; KUZ'MIN, D.S., dots.; ROZANOVA, L.M.; KISELEVA, A.M.;

POVERGO, N.S.; VAKULENKO, A.D.

Comparative evaluation of the effectiveness of certain therapeutic methods in chronic leukemias; roentgen rays, radioactive phosphorus, in chronic leukemias; roentgen rays, radioactive phosphorus, methods in chronic leukemias; roentgen rays, radioactive phosphorus, methods (AIRA 12:2)

1. Iz gematologicheskoy kliniki (zav. - prof. S.I. Sherman) Leningradekogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel-gradekogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel-gradekogo instituta perelivaniya krovi (dir. - dots. A.L. Belyakov, skogo instituta perelivaniya krovi (dir. - dots. A.L. Belyakov, radiohny rukovoditel-chlen-korrespondent AMN SSSR prof. A.N. Finauchny rukovoditel-comparison of various radiol. & chem. methods (Rus))

SHERMAN, S.I., prof.; KUZ'MIN, D.S., dotsent; ROZANOVA, L.M.; KISELEVA, A.N.: POVERGO, N.S.; VAKULENKO, A.D.

Comparative evaluation of the effectiveness of certain therapeutic methods in chronic leukemias; roentgen rays, radioactive phosphorus, urethane, embichine, arsenic, myleran. Report No.5: Probl. gemat. 1 perel. krovi 4 no.5:14-18 My 159. (MIRA 12:7)

1. Iz gematologicheskoy kliniki (zav. - prof. S.I. Sherman) Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi (dir. - dotsent A.D. Belyakov, nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. A.I. Filatov). (LEUKEMIA, therapy.

comparison of various methods (Rus))

(LEUKEMIA)

Treatment of patients with chronic myelosis with myelosan in association with roentgen rays. Terap.arkh. 32 no.9:32-36 60.

(MIRA 14:1)

1. Iz gematologicheskoy kliniki (zav. - prof. S.I. Sherman)
Leningradskogo ordena Trudovogo Krasnogo Znameni nauchnoissledovatel skogo instituta perelivaniya krovi (nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. A.N. Filatov).

(BUSULFAM)

SHERMAN, S.I., prof.; BLINOVA, A.I.

Indications and contraindications for splenectomy in Werlhof's disease, hemolytic jaundice, the splenomegalic form of liver cirrhosis, and in thrombophlebitic splenomegaly. Problegemat.i perel.krovi 5 no.1:14-17 Ja '60. (MIRA 14:6)

1. Iz gematologicheskoy kliniki (zav. - prof. S.I,Sherman) i khirurgicheskoy kliniki (zav. - chlen-korrespondent AMN SSSR prof. A.N.Filatov) Leningradskogo ordena Trudovogo Krasnogo Znameni instituta perelivaniya krovi (dir. - dotsent A.D.Belyakov).

(SPLEEN\_SURGERY) (LIVER\_CIRRHOSIS)

(ANEMIA) (PURPURA (PATHOLOGY))

Interrelation between polycythemia vera and chronic myelosis.

Terap.arkh. 34 no.3:99-104 '62.

1. In gematologicheskoy kliniki (zav. - prof. S.I. Sherman) Leningradskogo nauchno-issledovatel'skogo instituta perelivaniya krovi gradskogo nauchno-issledovatel'skogo instituta perelivaniya krovi (dir. - dotsent A.D. Belyakov, nauchnyy rukovoditel' - chlen-(dir. - dotsent A.D. SSR prof. A.N. Filatov).

(ERYTHEMIA) (MARROM.—TUMORS)

BABCHIN, I.S., prof.; BABANOVA, A.G., doktor med. nauk; BLOKHIN, N.N., prof.; BONDARCHUK, A.V., prof.; GAL'PERIN, M.D., prof.; GOL'DSHTEYN, L.M., prof.[deceased]; DYMARSKIY, L.Yu., kand. med. nauk; KARPOV, N.A., prof.; KOYRO, M.A., nauchn. sotr.; LARIONOV, L.F., prof.; LITVINOVA, Ye.V., kand. med. nauk; MEL'NIKOV, R.A., kand. med. nauk; NECHAYEVA, I.D., doktor med. nauk; PETROV, Nikolay Nikolayevich, prof.; PETROV, Yu.V., kand. med.nauk; RAKOV, A.I., prof.; ROGOVENKO, S.S., kand. med. nauk; SENDUL'SKIY, I.Ya., prof.; SEREBROV, A.I., prof.; SMIRNOVA, I.N., kand. med. nauk; TAL'MAN, I.M., prof.; TOBILEVICH, V.P., prof.; TRUKHALEV, A.I., kand. med. nauk; KHOLDIN, Semen Abramovich, prof.; CHEKHARINA, Ye.A., kand. med. nauk; CHECHULIN, A.S., kand. med. nauk; SHAAK, V.A., prof.[deceased]; SHANIN, A.P., prof.; SHAPIRO, I.N., prof.[deceased]; SHEMYAKINA, T.V., kand. med. nauk; SHERMAN, S.I., prof.; ABRAKOV, L.V., red.; LEBEDEVA, Z.V., tekhn. red.

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[Malignant tumors]Zlokachestvennye opukholi; klinicheskoe rukovodstvo. Leningrad, Medgiz. Vol.3. Pts.1-2. 1962. (MIRA 16:5)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Blokhin, Petrov, Serebrov). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Kholdin).

(CANCER)

YAKUBSON, A.K.; SHERMAN, S.M.

Treatment of lupus erythematous with bigumal. Sov. med. 25 no.11: (MIRA 15:5)

l. Iz kliniki kozhnykh bolezney (zav. - prof. A.K.Yakubson) Novosibirskogo meditsinskogo instituta i gorodskogo venerologicheskogo dispansera (glavnyy vrach N.I.Sukhareva). (LUPUS ERYTHEMATOSUS) (PALUDRINE)

ZAGOSKIN, Yu.E., inzh.; SHERMAN, V.L., inzh.

Screwdriver with flexible shaft for M5-M8 screws and nuts. Stroi.

Mr '62.

i dor. mash. 7 no.3131-32 Mr '62.

(Screwdrivers)

SHERMAN, V.L.; LEGON'KIKH, G.V.; KORSAKOV, V.S., doktor tekhn. nauk, prof., retsenzent; NOVIKOV, M.P., kand. tekhn.nauk, red.; STROGANOV, L.P., inzh., red.; EL'KIND, V.D., tekhn. red.

[Mechanization of assembling operations in the instrument industry] Mekhanizatsiia sborochnykh rabot v priborostroenii. Moskva, Mashgiz, 1963. 466 p. (MIRA 17:2)

2281.3-66  $\underline{\text{EMT}(\texttt{m})/\text{EPF}(\texttt{n})-2/\text{EMF}(\texttt{v})/\text{T/EMP}(\texttt{t})/\text{EMP}(\texttt{k})} \quad \text{IJP}(\texttt{c}) \quad \exists \text{ for } I$ ACC NR: AP6011215 SOURCE CODE: UR/0413/66/000/006/0052/0053 INVENTOR: Gonserovskiy, F. G.; Sherman, V. P. ORG: none TITLE: Method of joining niobium and its alloys to vanadium. 21, No. 179855 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 52-53 TOPIC TAGS: welding, fusion welding, niobium, niobium alloy, niobium welding, alloy welding, vanadium, filler material, titanium, titanium filler, niobium titanium welding ABSTRACT: This Author Certificate introduces a method of welding niobium and its alloys to vanadium? To ensure a high ductility of the weld, titanium is used as filler material. [ND] SUB CODE: 13/ SUBM DATE: 22Apr64/ ATD PRESS: 4229 // welding of dissimilar metals 18

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	The of Latine stical stat stics methods in studying the preparation of a charge mixture. Zev.lab. 31 no.10:1229-1231 165. (ITRA 19	:1)	
	1. Uralishiy muchac-isaledovatelishiy khimleheskiy institu	ut.	

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BABIN, M.; SHERMAN, Ya.

Metal scrap in excess of the plan. Prom.koop. 14 no.3:30 Mr 160. (MIRA 13:7)

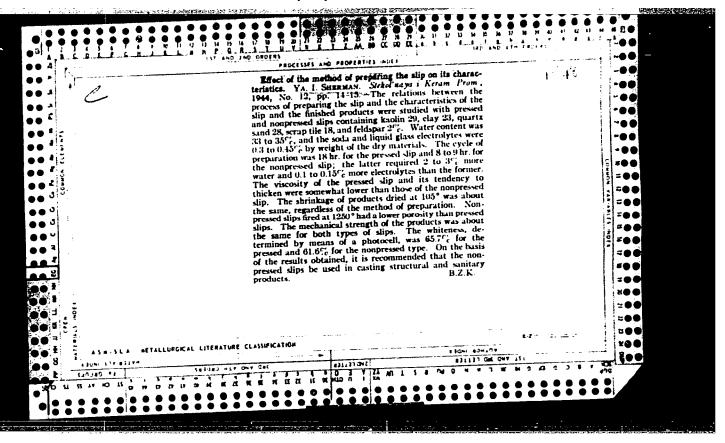
l. Predsedatel' pravleniya arteli "Avtoguzhtransport," Saratov (for Babin). 2. Sekretar' partorganizatsii arteli "Avtoguzhtransport," Saratov (for Sherman).

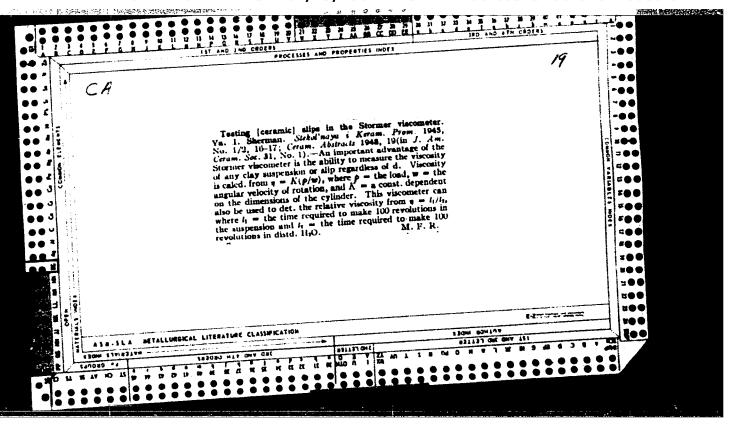
(Scrap metal industry)

Viruses

From the history of the science of viruses; controversy between D. T. Ivanovskiy and M. V. Heiyerink. Mikrociologiia 21 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 19532 Unclassified.

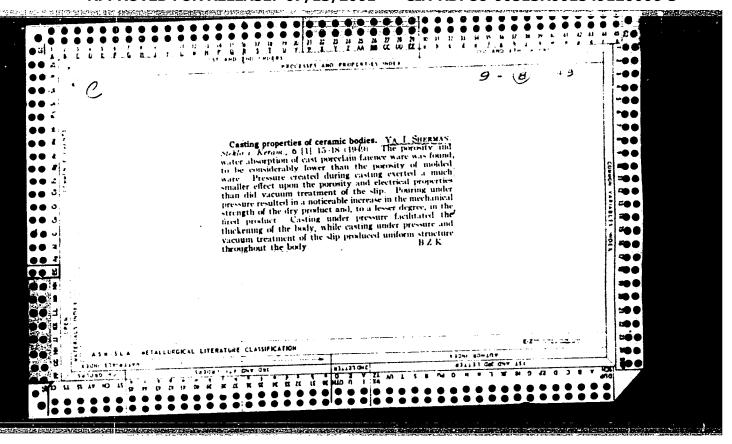




SHERMAN, Ya. 1.

Snerman, Ya. I. "German ceramic industry,"in symposium: Syr'-yevyye resursy tonkokeram prom-sti SSSR i puti ikn ispol'zovaniya, Moscow-Leningrad, 1946, p. 42-43

SC: U-2888, Letopis Zmurnal'nykn Statey, No. 1, 1949



Professodstvo sanitarno-stroitel'noy keramiki.

Noscow, losudarstvennoe -zdatel'stro Literatury po Stroitel'nym
Naterialam, 1951. pp. 209, photos, diags., tabs., bibliog.;
22 x 1h; blue and buff boards.

(1) 17 (1) 17 (1) 17 (1) 10 (

SHERMAN, Yakov Iosifovich; OVCHINSKIY, A.F., inzh., nauchnyy red.; KOSYAKINA, Z.K., red.izd-va; KOMAROVSKAYA, L.A., tekhn.red.

[Production of sanitary structural ceramics]Proizvodstvo sanitarno-stroitel'noi keramiki. Izd.2., perer. 1 dop. Moskva, Gosstroiizdat, 1963. 149 p. (MIRA 16:3) (Sanitary engineering-Equipment and supplies) (Ceramics)

"Betermination of Permissible Number of Short-Circuit Current Sut-offs of a Low-Oil Content Circuit Breaker According to the chilitions of Lowered Electrical Strength of its Internal Insulation," with KAFLAN, W. V., and NASHATYR', V. M., | p +00

High Voltage Technique, Moscow, Gosenergoizdat, 1958, 664pp (Sories: Its Trudy, No. 195)

This collection of articles sums up the principal results of investigations and studies made by Prof. A. A. Gorev, Dr. Tech. Sci., and his staff in the field of high voltage phenomena and techniques at LPI (Leningrad Polytech Inst.) It was at this institute that Prof. Govev completed his higher scientific education and then taught and carried on his investigations in the field until his death in 1953. In 1956, by decree of Min of Higher Education, the High-Voltage Lab. at LPI was named after A. A Gorev.

8(3) SOV/112-59-3-4927

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 3, p 90 (USSR)

AUTHOR: Kaplan, V. V., Nashatyr', V. M., and Sherman, Ya. N.

TITLE: Determination of Permissible Number of Short-Circuit-Current
Interruptions by a Low-Oil-Content Circuit Breaker on the Basis of the
Impaired Electric Strength of Its Internal Insulation (Opredeleniye
dopustimogo chisla otklyucheniy toka korotkogo zamykaniya malomaslyanym
vyklyuchatelem po usloviyam snizheniya elektricheskoy prochnosti yego
vnutrenney izolyatsii)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1958, Nr 195, pp 460-475

ABSTRACT: Methods are developed for determining the guaranteed number of short-circuit-current interruptions by a low-oil-content circuit breaker; the methods are based on investigations of the internal insulation of a type MG-110 low-oil-content "Elektroapparat" make circuit breaker, conducted in the high-voltage laboratory of LPI. (1) First, the circuit breaker is to be tested for

Card 1/4

8(3)

SOY/112-59-3-4927

Determination of Permissible Number of Short-Circuit-Current Interruptions . . . .

many interruptions of its rated short-circuit current. It is permitted to stage these tests at a considerably lower voltage; however, the time of arc burning should be as long as the time under actual short-circuit clearing conditions. From the standpoint of chamber-insulation contamination, such test conditions are equivalent to the conditions of breaker operation under its rail divoltage.

(2) Then the internal-insulation resistance should be measured by a megommeter, leakage currents due to an applied rectified voltage should be determined, and oil samples should be taken. (3) As a next step, the insulation of the breaker with open contacts is tested by an oscillatory voltage similar to the actual recovery voltage; the crest value of the testing voltage is selected equal to the most probable surge voltage observed in the network in question. The above tests can be staged by means of a "switching-surge generator" developed and built in the high-voltage LPI laboratory (a detailed description of the device is presented). In selecting frequency of the test voltage, it

Card 2/4

8(3) SOV/112-59-3-4927

Determination of Permissible Number of Short-Gircuit-Current Interruptions . . . .

should be kept in mind that the insulation is more strained with a lower frequency of the surge-voltage oscillations. (4) Measurements according to items 2 and 3 are repeated with gradually increasing surge amplitudes in order to determine the margin of the insulation under test. (5) The insulation measurement according to item 2 is repeated; thereupon, to the breaker or to its individual arc-rupturing contacts a commercial-frequency voltage is applied which exceeds by 20-25% the voltage most probable under the operating conditions of the breaker in question. (6) If the state of insulation permits, the testing procedure (items 1-5) is again repeated. The investigations by the above method have shown that, after 80 or more openings (of currents close to the rated duty 13,200 amp), the MG-110 breaker and its internal insulation have been in good condition: infinite insulation resistance and leakage current of 1 microamp or less, the insulation has withstood AC voltage for 8 hours and also surge impulses with peak values as high as 7 times the line-to-ground

Card 3/4

8(3) SOV/112-59-3-4927

Determination of Permissible Number of Short-Circuit-Current Interruptions . . . . voltage. The chamber insulation was impaired only when surge impulses were applied after 94 openings of short-circuit currents. The authors permit 10 openings of short-circuit currents by the MG-110 breaker under operating conditions, with inspection or oil change. Investigation results are tabulated.

R.A.M.

Card 4/4

8(2)

SOV/105-59-7-22/30

AUTHOR:

Sherman, Ya. N., Engineer

TITLE:

A Device for the Direct Testing of High-voltage Apparatus (Ustanovka dlya pryamykh ispytaniy vysokovol'tnykh apparatov)

PERIODICAL:

Elektrichestvo, 1959, Nr 7, pp 81 - 83 (USSR)

ABSTRACT:

At the Leningradskiy filial VEI (Leningrad Branch of the All-Union Electrotechnical Institute) a method of testing highvoltage apparatus as to their disconnectibility was worked out and investigated 1956 - 1958. In this method the summation of the reactive power of the shock oscillator and of the oscillatory circuit was attained by their being connected in series. Figure 1 shows the basic wiring scheme of the device, which is briefly described. For the purpose of warranting optimum utilization of the shock oscillator efficiency and a long life of the condensers which are used in the oscillatory circuits of A. A. Gorev used here, the duration of shortcircuits must be reduced to a minimum. This is attained if no transition process of reduced frequency occurs. The necessary condition is written down. In order to attain the best possible utilization of the condensers, should their nominal voltage be different from planned voltage, as well as in the testing of apparatus at increased or reduced voltages, intermediate

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120006-3"

A Device for the Direct Testing of High-voltage Apparatus SOV/105-59-7-22/30

transformers are used (Figure 2 shows such a basic circuit). Figure 3 shows such a circuit according to which the investigations of the joint work of the shock oscillator TI-12 and of the oscillatory circuit were carried out at the aforementioned institute. Also the oscillograms obtained by the experiment are given. In a summary, it is said that the use of a circuit with series-connected shock oscillators and oscillatory circuit of Gorev makes it possible to summate their efficiencies and thus to increase the testing efficiency of the laboratory in the case of direct tests. The circuit permits a combination of the decrease of short-circuit currents and, in some cases, a compensation of part of the inductivity in the oscillatory circuit, so that the installed efficiency of the shock oscillator and of the oscillatory circuit can be fully utilized. There are 6 figures.

ASSOCIATION: Leningradskiy filial Vsesoyuznogo elektrotekhnicheskogo instituta im. Lenina (Leningrad Branch of the All-Union Electro-

technical Institute imeni Lenin) SUBMITTED: December 12, 1958

Card 2/2

STATEMENT AND STATEMENT AND STATEMENT OF STA

SHERMAN, Ya. N.

Cand Tech Sci - (diss) "Joint performance of shock generator and oscillation circuit of A. A. Gorev in direct testings of high-voltage apparatus as to switching capacity." Leningrad, 1961. 20 pp; with diagrams; (State Committee of the Council of Ministers USSR for Automation and Machine-Building, All-Union Order of Lenin Electrical Engineering Inst imeni V. I. Lenin, Leningrad Affiliate); 150 copies; price not given; (KL, 10-61 sup, 220)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120006-3"

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SHERMAN, Ya.N., inzh.

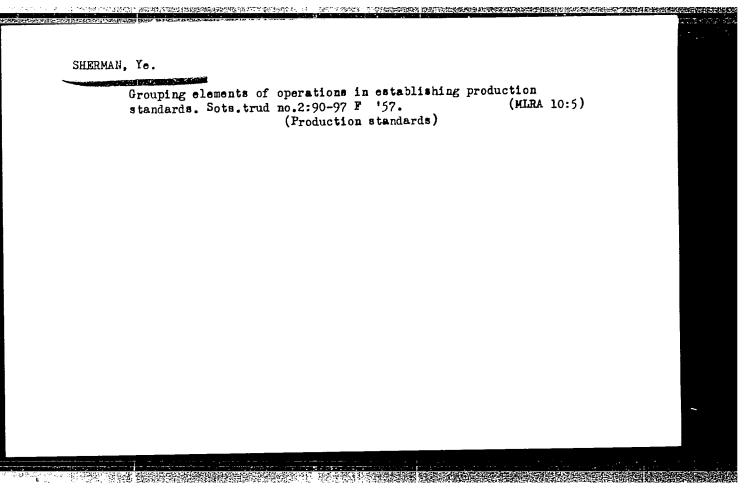
Joint operation of an impulse generator and Gorev's tank circuit in the direct testing of the performance of circuit breakers. Elektrichestvo no.5:52-57 My '61. (MIRA 14:9)

1. Vsesoyuznyy elektrotekhnicheskiy institut imeni Lenina, Leningradskiy filial. (Electric circuit breakers—Testing)

ZAKHAROV, S.N., kund.tekhn.nauk; KAPLAN, V.V., inzh.; IONOV, V.V., inzh.;
OSIPOVA, T.V., inzh.; JHERMAN, Ya.N., inzh.; SHESHIN, B.A., inzh.

New MG-10 and MG-20 generator switches. Vest. elektroprom. 32 no.3:
71-76 Mr \*61. (MIRA 15:6)

(Electric switchgear)



AUTHOR:

Sherman, Ye.I.

3-58-2-15/33

TITLE:

Meeting the Needs of Industry (Idya navstrechu nuzhdam promy-

shlennosti)

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, # 2, pp 65-67 (USSR)

ABSTRACT:

Because of the lack of engineer-economists, some vtuzes in 1957 began training in this field. At the Moscow Aviation Institute this task was entrusted to the Inzhenerno-ekonomicheskiy fakultet (Engineering-Economic Faculty). The number of hours were increased for the following courses: "Cutting, Machine Tools and Instruments", "Technology of Aircraft Building", "Technical Normalization", and the following additional subjects were introduced: "Automation of Productional Processes" and "Organization of Labor and Wages". Special programs provide courses in "Organization of Production" and "The Economics of the Aviation Industry". Much of the time allotted for this subject is used for practical and laboratory exercises. The students are taught to compute the technical standards for operating metalcutting lathes, for bench work, cold and drop forging, welding and assembling.

In the laboratory of technical normalization the students elaborate norms for the cutting process, calculate the times

Card 1/2

Meeting the Needs of Industry

3-58-2-15/33

for fixing and removing parts, assembling units of engines and aircraft. They also prepare equipment index cards, study the organization of one-man-operation of several machine tools, etc.

In the course "Organization of Labor and Wages", the students compute the workmen wages and various indices of labor, analyze the structure of wages, etc.

The students prepare 3 projects - on machine parts, technology and organization of labor, and technical normalization, and accomplish 3 works - on political economy, planning and economics of the aviation industry. During the first half (4 weeks) of the practical training, the students work as normalization clerks in the labor and pay office; during the second half - in the plants norm-research office.

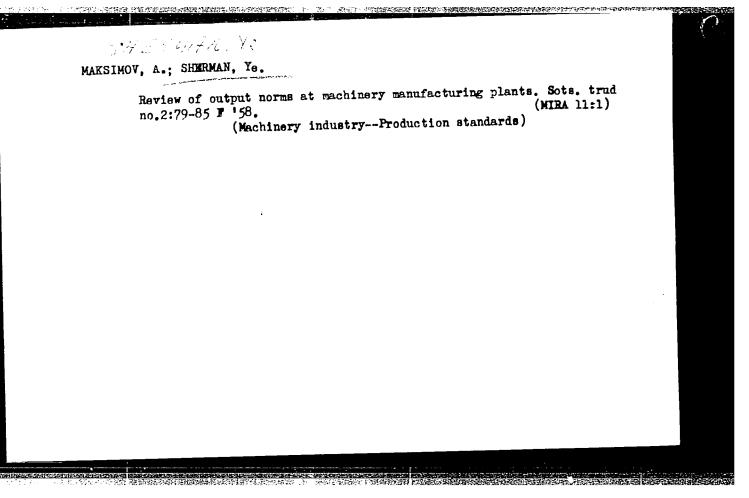
ASSOCIATION: Moskovskiy aviatsionnyy institut imeni S. Ordzhonikidze (The

Moscow Aviation Institute imeni S. Ordzhonikidze)

AVAILABLE:

Library of Congress

Card 2/2



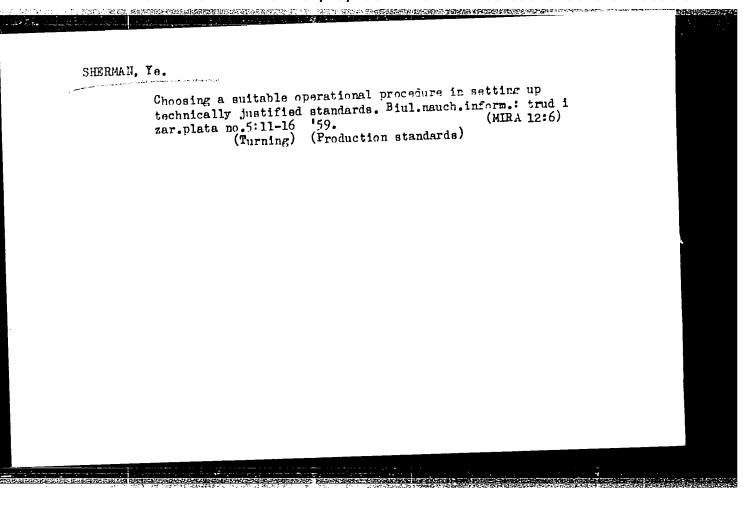
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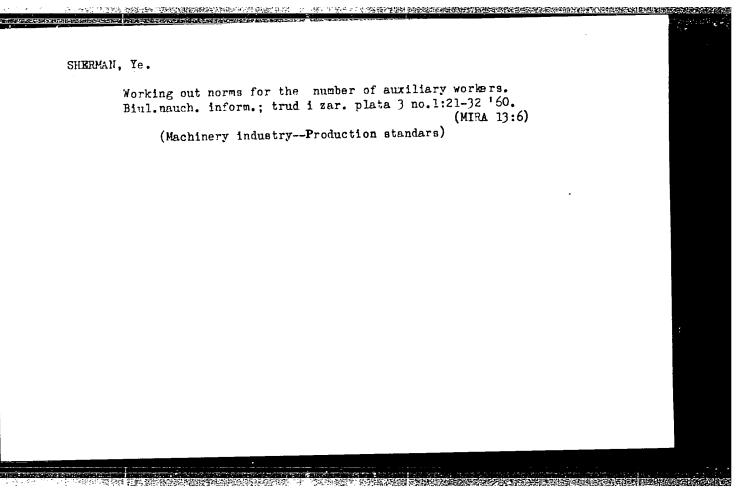
SHERMAN, Ye.: MOLCHANOVA, N.; ZAGIRUVA, R.

Use of calculating machines for the analysis of wage systems.

Sots.trud 4 no.8:66-71 Ag '59.

(Wages) (Accounting machines)





LYASNIKOW, I., KHOLODNAYA, G., SHERMAN Ye.

"Principles of establishing work norms in an industrial enterprise"
by A.D.Galitsov. Reviewed by I.Liashnikov. G.Kholodnaia, E.Sherman.
by A.D.Galitsov. Reviewed by I.Liashnikov. G.Kholodnaia, E.Sherman.
Sots.trud 7 no.1.155-159 Ja '62.

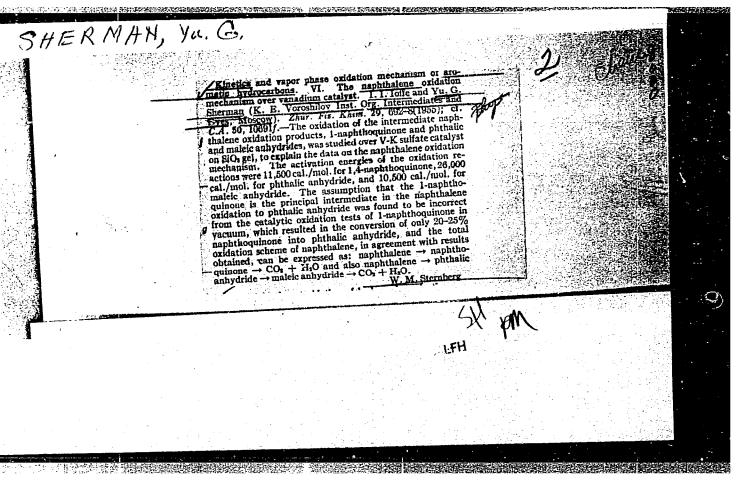
(Production standards) (Galitsov. A.D.)

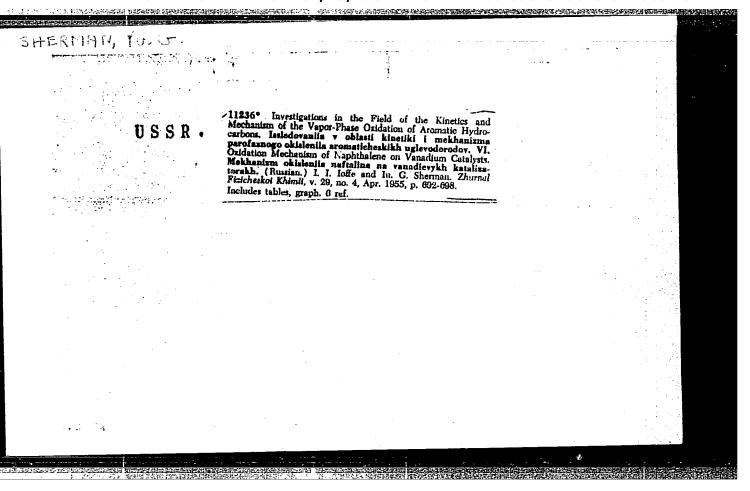
(Production standards) (Galitsov. A.D.)

SHERMAN, Ye.Ye.; SHERMAN, I.Ye.

Machine for priming and painting wood parts. Der. prom. 8 no.9:
26-27 S '59.

(Wood finishing)

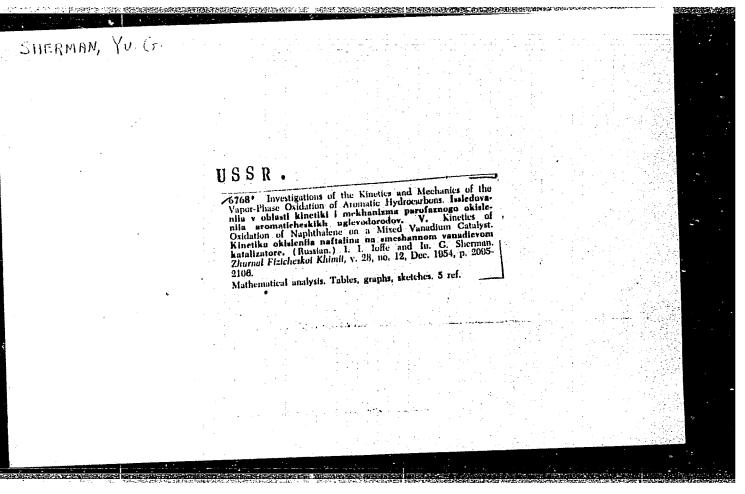


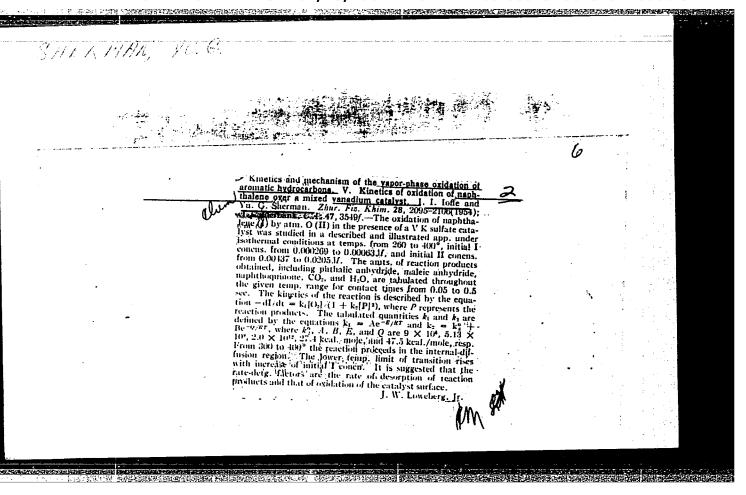


IOFFE, I.I.; SHERMAN, Yu.G.

Research in the field of kinetics and mechanism of vapor-phase oxidation of aromatic hydrocarbons. Part 6. Mechanism of the oxidation of naph-thalene on vanadium catalysts. Zhur.fis.khita. 29 no.4:692-698 Ap 155. (MIRA 8:8)

Institut organicheskikh poluproduktov i krasiteley im. K.Ye.
 Voroshilova, Moskva. (Naphthalene) (Oxidation)
 (Catalysts, Vanadium)





#### CIA-RDP86-00513R001549120006-3 "APPROVED FOR RELEASE: 07/13/2001

USSR/Chemistry - Physical chemistry

Card 1/1

Pub. 147 - 3/27

Authors

: Ioffe, I. I., and Sherman, Yu. G.

Title

: Study of the kinetics and mechanism of vapor-phase oxidation of aromatic hydrocarbons. Part 5. Kinetics of oxidation of naphthalin over a mixed

vanadium catalyst

Periodical

Zhur. fiz. khim. 28/12, 2095-2106, Dec 1954

Abstract

The study of naphthalin oxidation kinetics with air over a mixed vanadiumpotassium-sulfate catalyst was conducted with a thorough analysis of the resultant reaction products. A special isothermal method developed for this investigation is described. Formula determining the rate of reaction of naphthalin oxidation is included. It was established that at 300 - 4000 the reaction is shifted into the internal-diffusion zone and the lower temperature limit of this transition increases with the increase in the basic concentration of the naphthalin. The rate of oxidation of the surface layer of the catalyst, which is regenerated during reaction with naphthalin molecules, and the desorption of reaction products are considered the determinant factors of the oxidation process. Five references; 3 USSR and 2 USA (1935-1952). Tables; graphs; drawings.

Institution:

The K. E. Voroshilov Scientific Research Institute of Org. Semiproducts and

Dyes.

Submitted

December 11, 1953

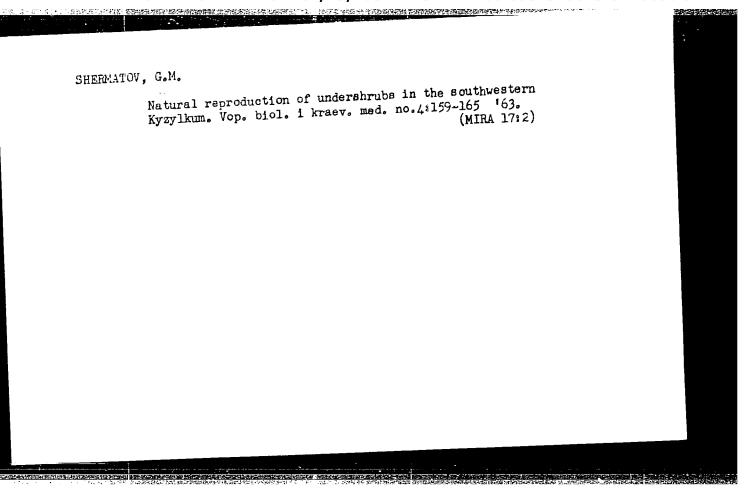
NECHAYFV, G.K., kand.tekhn.nauk; VASIL'YEV, Yu.K., kand.tekhn.nauk;
BOGAYENKO, I.N., inzh.; BEREZYUK, B.S., inzh.; SHERMAREVICH,
M.G., inzh.

Devices for temperature control in large d.c. machines.
Vest. elektroprom. 33 no.11:31-34 N '62. (MIRA 15:11)

(Electric motors, Direct current)

Slaber A., A.i.; armidual chart, a.k.; discipantly, a.k.

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1. Louingradskiy gosubrotychnyg universitet.



ACC NR: AT6023566 (N) SOURCE CODE: UR/3095/66/036/000/0202/0207	ı
AUTHOR: Terekhin, Yu. V.; Shermazan, V. F.	
TITLE: Instrument for determining depth ranges when measured with the "Ladoga" facsimile equipment automatic recorder  SOURCE: AN UkrSSR. Morskoy gidrofizicheskiy institut. Trudy, v. 36, 1966. Metody i pribory dlya issledovaniya fizicheskikh protessov v okeane (Methods and instruments for studying physical processes in the ocean), 202-207  TOPIC TAGS: facsimile equipment, facsimile recording, auto recorder, data recording, oceanographic instrument, oceanography, oceanographic equipment, individual sound equipment, geomorphology  ABSTRACT: Use of the "Ladoga" facsimile equipment as a self-recording depth device has expanded considerably the possibilities for taking soundings in the ocean, as well as for carrying on marine geomorphologic and geologic research. The great well as for carrying on marine geomorphologic and geologic research. The great difficulty encountered in the use of the equipment is the inability to determine difficulty encountered in the use of the equipment is the inability to determine the range (epoch) of depths measured at any given instant. While individual institutes, such as the Marine Hydrophysical Institute of the Academy of Sciences of the Ukranian SSR, the Institute of Oceanology and the Acoustics Institute, both of the Academy of Sciences of the UKRANIAN SCIENCES OF THE UKSR, have a certain amount of experience in using the	
Card 1/2	I

ACC NR: AT6023566					
equipment as a precision depth recorder, the problem of determining the range of depths measured had not been completely solved. This difficulty brought about the depths measured had not been completely solved. "Range"					
design and the construction of the "Ladoga" facsimile equipment, the pure library "Nfor use as an adaptor for the "Ladoga" facsimile					
pose of which is to measure the range and the depth proper recorded on the pose of which is to measure the range and the depth proper recorded indicator! equipment at any given moment. The principle of operation of the "Range Indicator" is described and it is concluded that use of the instrument has facilitated equipment operation and eliminated possible errors in determining the recorded range, as well as the depth proper. Orig. art. has: 2 figures.					
SUB CODE: 08/SUBM DATE: None/ORIG REF: 004	r				
	3				
Card 2/2					

#### CIA-RDP86-00513R001549120006-3 "APPROVED FOR RELEASE: 07/13/2001

SOURCE CODE: UR/3095/66/036/000/0202/0207 (N)ACC NR: AT6023566

AUTHOR: Terekhin, Yu. V.; Shermazan, V. F.

ORG: None

TITLE: Instrument for determining depth ranges when measured with the "Ladoga" facsimile equipment automatic recorder

SOURCE: AN UkrSSR. Morskoy gidrofizicheskiy institut. Trudy, v. 36, 1966. Metody i pribory dlya issledovaniya fizicheskikh protsessov v okeane (Methods and instruments for studying physical processes in the ocean), 202-207

TOPIC TAGS: facsimile equipment, facsimile recording, auto recorder, data recording, phase recording, nignal recording, ocean floor topography, oceanographic equipment, individual sound equipment, oceanographic instrument, oceanography,

geomorphology ABSTRACT: Use of the "Ladoga" facsimile equipment as a self-recording depth device has expanded considerably the possibilities for taking soundings in the ocean, as well as for carrying on marine geomorphologic and geologic research. The great difficulty encountered in the use of the equipment is the inability to determine the range (epoch) of depths measured at any given instant. While individual institutes, such as the Marine Hydrophysical Institute of the Academy of Sciences of the Ukranian SSB, the Institute of Oceanology and the Acoustics Institute, both of the Academy of Sciences of the USSR, have a certain amount of experience in using the

Card 1/2

KNORRING, G.M., kandidat tekhnicheskikh nauk; HELYAKOV, A.A.; KRESLIN'SH,
E.K., knzhener; SHERMAZANYAN, Ya.T.; LEYBOVICH, D.S.

Use of PPv wires. Prom.energ. 11 no.12:22-25 D '56. (MIRA 10:1)

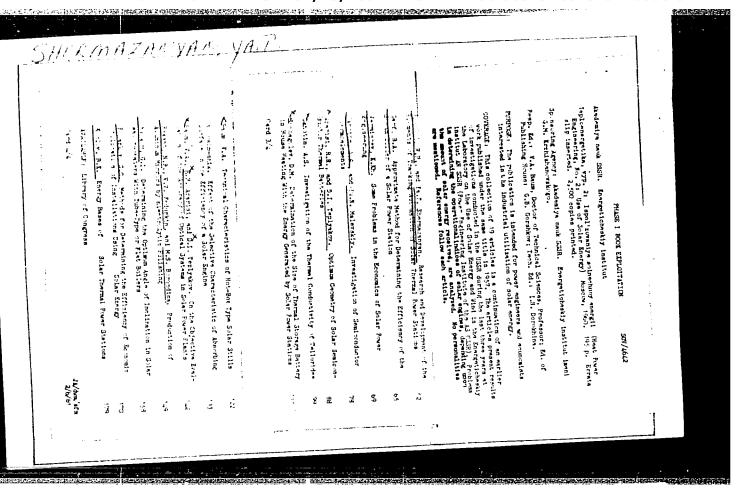
1. Gosudarstvennyy proyektnyy institut Tyazhpromelektroproyekt (for Knorring).2. Gor'kovskoye otdeleniye Gosudarstvennogo proyektnogo instituta Elektroproyekt (for Belyakov). 3. Energosbyt Latvenergo instituta Elektroproyekt (for Belyakov). 3. Energosbyt Latvenergo (for Kreslin'sh). 4. Respublikanskiy proyektnyy institut, Yerevan (for Shermazanyan). 5, Treet "Moselektromontazh-2" (for Leybovich). (Electric wire, Insulated)

SHEMPZANYAN, Yakov Tigranovich; BAUM, V.A., prof., doktor tekhn.nauk, red.; SAMKISYAN, M., red.izd-ve

[Utilization of solar energy in the national economy] Ispol'zovanie solaechnoi energii v narodnom khoziaistve. Pod red.
v.A.Bauma. Erevan, Izd. Ob-va po rasprostraneniiu polit. i
v.A.Bauma. Erevan, Izd. Ob-va po rasprostraneniiu polit. i
nauchn. znanii Armianskoi SSR, 1959. 42 p. (MIRA 13:1)

(Solar energy)

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#### "APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120006-3 表现在中华的 Telegram Tele

s/:73/60/013/001/004/005 A104/A029

Shermazanyan, Ya.T. and Aparisi, R.R.

Elements of the Automatic Tracking Equipment of a Solar Thermal AUTHORS:

TITLE: Plant (STS)

Izvestiya Akademii nauk Armyanskoy SSR, Seriva tekhnicheskikh nauk, PERIODICAL:

1960, Vol. 13 No. 1. pp. 57-70

The plant is based on an azimuth zenith apparatus coupled with automatic control equipment. The heating problem of the steam boiler by 1,293 reflacting mirrors can be solved by two basically different systems: direct individual automatic sun tracking of the solar-heat units and precalculated sun tracking of these units. The automatic equipment is exposed to wini, rain, snow and temperatures varying between -30°C to + 40°C, etc. Its post is 10 - 12 % of the total capital investment. The above mentioned relay systems passed laboratory and practical tests performed in Armenia on the area, where the first solar thermal plant is to be erected. The non-relay systems just being tested present no difficulties. The movement of the reflecting mirror shown is expressed in several equations. The great differences between maximum and minimum values complicate

Card 1/2

Using solar energy for melting high-purity and heat-resistant materials. Prom. Arm. 4 no.7:56-57 Jl '61. (MIRA 14:7)

1. Institut energetiki AN Armyanskoy SSR. (Solar heating)

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#### CIA-RDP86-00513R001549120006-3 "APPROVED FOR RELEASE: 07/13/2001 的现在形式,我们就是我们的有效的,我们就是一个人的人,我们不是一个人的人,我们就是这种的人,我就是一个人的人的人,也不是一个人的人,也不是一个人的人,也不是一个人

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s/196/62/000/015/005/008 E194/E155

26.2422 (11 2219)

Shermazanyan, Ya.

An automatic solar orientator AUTHOR:

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, TITLE:

no.15, 1962, 23, abstract 15 G 134. (Ayastani ardyunaberutyuny, no.10, 1961, 70-75 (Armenian));

(Prom-st' Armenii 4 no. 10, 1961, 59-63 (Russian)).

An automatic device is described to control the orientation of a solar power generating equipment. Graphs and design formulae are given for determining the principal angle and parameters of the optical servo-system, which rotates the equipment to follow the apparent motion of the sun. A radiation diagram is given of a chemical solar reactor installed in the Institut organicheskoy khimii AN ArmSSR (Institute of Organic Chemistry of the AS Arm. SSR) and a circuit diagram of the automatic control circuit of the orientator, also a schematic sketch of the arrangement of the parts. The principal components and operating principles are as follows. The sun's rays falling on the mirrororientator are reflected onto a parabolic-cylindrical mirror Card 1/2

An automatic solar orientator

5/196/62/000/015/005/008 E194/E155

concentrator which directs the rays onto the reactor filled with chemically reacting substances. Since only the luminous part of the solar spectrum is required to activate the chemical process, the heat rays are trapped by cooling water contained in the reactor jacket. Photo-electric pick-ups in the form of tubes with photoimpedances are fitted on the path between the orientator and the parabolic-cylindrical concentrator. As the sun moves a greater or lesser amount of its rays enter the tube and act on the photoimpedances which switch on electric motors to make the orientator track the sun. The pick-up has two zenith tubes, one of which is for alteration up to noon as the sun rises, and the other for the afternoon as it sets; also one azimuth and one signal tube in case there is no sunlight. An electric circuit is given of the automatic device with combinations of photo-electric, ohmic, inductive and capacitative impedances. The use of photo-electric pick-ups ensures stable operation of the solar power equipment. 7 illustrations, 5 references.

[Abstractor's note: Complete translation.]

Card 2/2

L 22673-66 EWT(1)/EWT(m)/EPF(n)-2/T/EWP(t)/EWP(k)/ETC(m)-6 JD ACC NR: AP6006191 SOURCE CODE: UR/0377/65/000/004/0005/0010

AUTHORS: Vartanyan, A. V.; Shermazanyan, Ya. T. (Candidate of technical sciences)

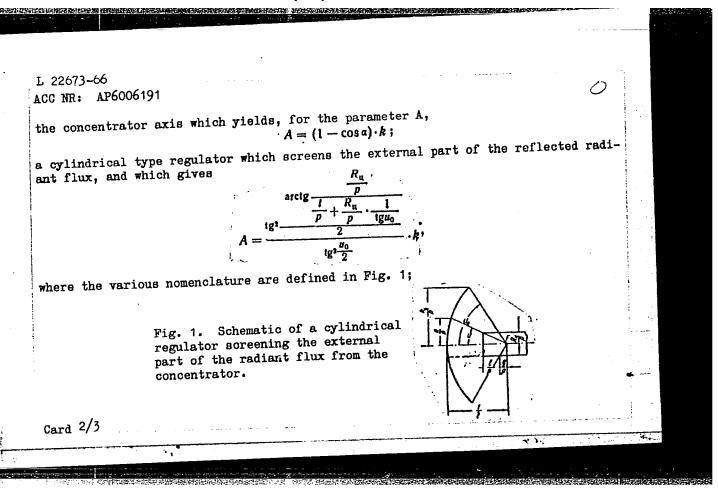
ORG: Armenian Basic Laboratory, All-Union Scientific Research Institute for Current Sources (Armyanskaya bazovaya laboratoriya, Vsesoyuznogo n.-i. instituta istochnikov toka)

TITLE: Investigation of heat flow control systems in constant-power solar furnaces

SOURCE: Geliotekhnika, no. 4, 1965, 5-10

TOPIC TAGS: solar furnace, temperature distribution, temperature stabilization, solar radiation intensity, power optimization

ABSTRACT: The governing parameters behind a power-regulation method for a constantstrength solar furnace are discussed. The power regulation is defined by the equation P<sub>reg</sub> = A·P<sub>max</sub> = const, where A = c·k = const. The technique consists of defining c as a function of k. To this end, it is assumed that the sun can be represented as a point-radiation source, the parabolic concentrator has an idealized representery and receives parallel beams of radiation with constant density. Three geometry and receives parallel beams of radiation with constant density. Three types of regulators are analyzed: a screen type regulator placed perpendicularly to



### "APPROVED FOR RELEASE: 07/13/2001

L 22673-66

ACC NR: AP6006191

a cylindrical type regulator which screens the internal part of the reflected flux. This latter one yields the equation

$$A = \begin{cases} 1 - \frac{\log \frac{R_{\rm H}}{p}}{\frac{1}{2} \left[1 - \left(\frac{R_{\rm H}}{p}\right)^2\right] - \frac{I}{p}}} \\ \frac{1}{\log^2 \frac{u_0}{2}} \end{cases} \cdot k$$

Orig. art. has: 23 equations and 8 figures.

SUB CODE: 20/ SUBM DATE: 21Jun65/ ORIG REF: 001/ OTH REF: 001

Card 3/3 ///

DERECTABLYAN, Ya.T.; MERCHCYAN, T.L.

Derive-scale automatic helicergineering unit for testing materials or the method of fast radiation arine. Geliotektatka nr.5:45-50 (MPR 19:1) tes.

1. Armsenskaya basovaya laboratoriya Vsesovuznogo norcinno-isslado-isolaliyanga instituta istochnikov tera. Salatited June 16, 1965.

ACC NR: AP6018090 (A) SOURCE CODE: UR/0377/65/000/005/0045/0050 66 64 B

AUTHOR: Shermazanyan, Ya. T. (Candidate of technical sciences); Nersisyan, T. A.

ORG: Armenian Base Laboratory, All-Union Scientific Research Institute of Current Sources (Armyanskaya bazovaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo

instituta istochnikov toka)

TITLE: Large automatic heliotechnical installation for testing materials by the accelerated light aging method

SOURCE: Geliotekhnika, no. 5, 1965, 45-50

TOPIC TAGS: solar energy conversion, testing laboratory, nonmetal aging, material failure, material stability, light aging

ABSTRACT: The articles describes the BGUS concentrator, a new type of large heliotechnical installation which has been in operation in Yerevan since 1963. (Ya.T. Shermazanyan, G. P. Kazanchyan, M. M. Markosyan, "Heliotechnical Installation for Testing Materials Aging under the Action of Solar Rays," Avt. svid. no. 139513, Byulleten' izo-breteniy, 1961, no. 13). It was first proposed by the Armenian Affiliate of the All-Union Scientific Research Institute of Electromechanics as a device for accelerating light aging in the testing of electrical insulation materials. Subsequent investigations and development were conducted by the Energetics Institute of the Armenian SSR.

Card 1/2

L 38179-66 ACC NR: AP6018090	2
A special feature is its automatic tracking of the sun by the use of I cells in differential <u>photoelectric sensors</u> of the FS-K type. The automatic related matters as the reflectors (unique in preserving the full lar radiation, an important facet of light aging investigations), the the radiation on the operating surface of the wall, and the problem of At the present time, smaller models (MGUS) are being developed on the BGUS. Orig. art. has: 2 figures.	spectrum of so- distribution of f site selection.
SUB CODE: 20,11,10/ SUBM DATE: 16Jun65/ ORIG REF: 006	İ
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2.47	
\( \sigma \sigma \) Card 2/2	

SHERMATOV. A.N.

USSR/Mining Subject

1/1Card

Polyanskiy, A. P. Author

Construction defects of a tightening arrangement packer Title

Neft. Khoz., v. 32, #5, 48, My 1954 Periodical

The author remarks on the comments of B. S. Tolmachev Abstract

published in the Neft. Khoz., No. 4, 1953 concerning the article by M. A. Zelinskiy and A. N. Shermatov "For a Rational Construction of Equipment for the Bottom and Mouth of Gas Wells", published in the Neft. Khoz., No. 7, 1952. The author considers that the packer, shown on

AID P - 336

fig. 5, of the reviewed article, has many defects and

is unsatisfactory in service.

Institution: None

: No date Submitted

SHERMENEY, I.; KUZNETSOVA, V.

On the banks of the Angara River. NTC 2 nc.4:56-58 Ap '60.

(KIRA 13:5)

1. Zaveduyushchiye domami tekhniki pravogo i levogo beregov stroite: stva gidroelektrostantsil, g.Bratsk.

(Bratsk Hydroelectric Power Station)

operator, titheil Nu Juich	11/5 775 .84
SHIPUACHE LY MUTUETER YE STEAKHOVANIYE V SSSR (A THE UUSK) - E DV., GOBERNELENT, 1956. 170 p. TABLES FOOTURE FO	GRIJULTUR ( INSULA CE IN . BIBLIGGR PHICL
	2

KON'SHIN, Fedor Vasil'yevich, prof.; SHERMENEV, M., otv. red.; SHATROVA, T., red. izd-va; LEBEDEV, A., tekum. red.

[State insurance in the U.S.S.R.] Gosudarstvennoe strakhovanie v SSSR. Izd. 4., perer. i dop. Moskva, Gosfinizdat, 1961. 335 p. (MIRA 14:9)

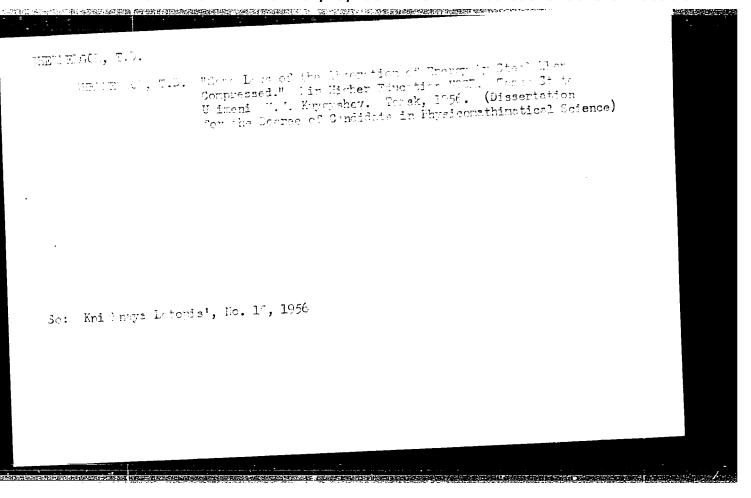
(Insurance)

SHERMENEV, M.K., kand. ekon. nauk; MOTOV, S.I.; KOLYCHEV, L.I., kand. ekon. nauk; BRAGINSKIY, L.V.; GRIGOR'YEV, S.T.; PYLAYEVA, A.P., red.; BALLOD, A.I., tekhn. red.

[Finance and the issuing of credit to agricultural enterprises] Finansy i kreditovanie sel'skokhoziaistvennykh predprises] Finansy i kreditovanie sel'skokhoziaistvennykh predpriatii. Moskva, Sel'khozizdat, 1963. 342 p.

(MIRA 16:5)

(Agriculture—Finance)



#### "APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120006-3 Cultural de una la companya de la c

SOV/137-58-11-23428

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 227 (USSR)

Shermergor, T.D. AUTHOR:

On the Theory of Relaxation Phenomena in Solids (K teorii relaksa TITLE:

tsionnykh yavleniy v tverdykh telakh)

Dokl. 7-y Nauchn. konferentsii, posvyashch. 40-letiyu Velikoy PERIODICAL:

Oktyabr'sk. sots. revolyutsii. Nr 2. Tomsk, Tomskiy un t, 1957,

pp 68-69

The author develops a theory of the relaxation phenomena in solids. ABSTRACT:

In considering a nonhomogeneous, isotropic, unbounded elastic body, the author utilizes a method of the thermodynamics of unbalanced conditions proposed by Leontovich and developed by Finkel'shteyn and Fastov in application to stress relaxation. The computations provide formulae for the elastic moduli, the latter being determined from the combination of all periods of relaxation. The connection existing be-

tween the formulae obtained and a generalized form of Hooke's law is

discussed.

v. N

Card 1/1

SHERMERGOR, T.D.

Thermodynamic theory of elastic aftereffect. Izv. vys. ucheb.zav.;

(MIRA 11:6)

Fiz. no.1:78-85 '58.

1.Sibirskiy metallurgicheskiy institut imeni S. Ordzhonikidze.

(Elasticity)

SHERMERGOR, T.D., kend.fiz.-mat nauk

Effect of relaxation processes on the curve of plastic flow
of metals. Izv. vys. ucheb. zav.; chern. met. no.3:111-118 Mr
158.

1.Sibirskiy metallurgicheskiy institut.
(Deformations (Mechanics))
(Metals, Effect of temperature on)

21(8)

ACTHOR:

Shermergor, T.D.

SOV/155-58-5-25/37

CITLE:

On the Thermodynamic Description of Processes Being not in

the State of Equilibrium

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye

nauki, 1958, Nr 5, pp 147 - 150 (USSR)

ABSTRACT:

The author shows that the usual relaxation relations

$$A = \overline{A} + \langle \phi, \dot{a} \rangle,$$

where  $\overline{A}$  is the value of the column matrix A corresponding to the equilibrium, a a known function of time,  $\phi \equiv \exp{(-St)F}$ , F a rectangular  $(n+m-k)\times k$  - matrix, S a quadratic  $(n+m-k)\times (n+m-k)$  - matrix and

can be derived from the equation

$$J_i = L_{ik} X_k$$

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25

On the Thermodynamic Description of Processes Being not in the State of Equilibrium

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for stationary processes, where  $X_i$  are forces,  $J_i$  the currents and  $\|L_{ik}\|$  is a symmetric matrix according to Onsager. Some

examples are given.

There are 7 references, 6 of which are Soviet, and

1 American.

ASSOCIATION: Sibirskiy metallurgicheskiy institut (Siberian Metallurgical

Institute)

SUBMITTED: July 21, 1958

Card 2/2

AUF.OR Shermergor F. D.

SOV/126-6-6-16/25

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FIFE: On the Theory of Relaxational Phenomena in Solid Bodies (K teorii relaksatsionnykh yavleniy v tverdykh telakh)

PERIODICAL: Fizika metallov i metallovedeniya, 1958, Vol 6. Mr 6, pp. 1077-1080 (USSR)

ABSTRACT: Theoretical investigations of relaxation of stresses and deformations in solids are usually generalizations of Hooke's law or they use the Boltzmann theory of elastic after-effects or thermodynamics of non-equilibrium processes. The thermodynamic methol is the most general. It was applied by the author to calculated stress tensor for a non-uniform isotropic unbounded solid. The author shows that, in general, the dynamic values of elastic moduli are determined by a spectrum of relaxation times. The paper is entirely theoretical. There are 8 Soviet references.

ASSOCIATION: Sibirskiy metallurgicheskiy institut im.S.Ordzhonikidze (Siberian Metallurgical Institute im. S. Ordzhonikidze)

SUBMITTED: February 4, 1947 and after revision, April 10, 1957.

Jard 1/1

57-28-5-28/35 Shermergor, T. D. AUTHOR:

On the Thermodynamic Theory of Relaxation Processes (K termo= TITLE:

dinamicheskoy teorii relaksatsionnykh protsessov)

Zhurnal Tekhnicheskoy Fiziki, 1958; Vol. 28; Nr 3, pp. 647-654 PERIODICAL:

(USSR)

A relation between the strain and deformation of a heterogeneous ABSTRACT:

isotropic elastic body is found here. The investigation is per= formed according to reference 3 by Finkel'shteyn and Fastov, only the temperature is considered variable. The heterogeneous body is subdivided into so many N-domains that within each domain the medium may be considered homogeneous. For marking the instanta= neous deviation of the system-state from the equilibrium position

the relaxation tensor  $\xi$  for each domain is introduced. The

equilibrium value of the relaxation tensor should be  $\overline{\xi}$  . Then ik  $\vartheta$ 

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On the Thermodynamic Theory of Releasing in Processia-

57-28-5-28/33

has a sample physical meaning: it is the additional deformation which must instantanequally be given to the investigated bodyelement, in order to put if into the equilibrium state. The different elements are expressed by different relaxation tensors and to each tensor corresponds its relaxation time. - The computation of the strain- and of the deformation-tensor for a heterogeneous isotropic body according to the method of the non-equilibrium states of thermodynamics is performed. The equations (27) for the strain. and the deformation-tensor are derived and compared with Boltzmann's superposition principle for creeping and for relaxation. It is shown that the formula (27) agrees with one of the forms of Boltzmann's principle. On the other hand the general form of Hooke's law follows from (27). Summarizing, the author states that in the presence of the relaxation-time-spectrum the general Hocke's law becomes too combersome (derivations of Nath degree occurring whereas the integral relations of thermodynamics (27) are considerably more convenient for the solution of various problems,

There are 8 references, all of which are Soviet.

ASSOCIATION: Stalinsk, Sibirskiy metallurgicheskiy institut im. 5. Ordzhonikidze

(Stalinsk Siberian Metallurgical Institute imeni S. Ordzhonikidze)

CHOICE CONTROL 
SUBMITTED: June 8, 1957 1

1. Elastic shell-"Thermodynamic properties 2, Elastic shell

Card 2/2 --Stresses

SHEPPERCOR, T.D., kand. fiz.-mat. nauk, dotsent

Cyclic deformation of solids with elasticity-toughness properties.

Izv. vys. ucheb. zav.; chern. met. 2 no.3:65-72 Mr '59.

(MIRA 12:7)

1.Sibirskiy metallurgicheskiy institut. Bekomendovana kafedroy fiziki Sibirskogo metallurgicheskogo instituta.

(Deformation (Mechanics))

(Blasticity)

#### "APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120006-3 经自身存货 经产品的最后的基础的 计大多数分别 医克尔二氏 一种 "这一个时间,这个时间,我们就是这种,我们就是这种的人,我们就是这种的人,我们就是这种人,我们

SUV/120-7-1-22/28

Shermergor, T.D. AUTHOR:

Absorption of Energy by Steel in Plastic Compression TITLE:

(Pogloshcheniye energii stal'yu pri plasticneskom szhatii)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1959, Vol 7, Nr 1, pp 146-150 (USSR)

ABSTRACT; The latent energy of two types of steel has been experimentally determined. The specimens for compression were cylindrical: 17 mm diameter and 25 mm high, 20 mm diameter and 30 mm high, The last were used for and 13 mm diameter and 20 mm high. control purposes. Prior to testing, the specimens were annealed in iron filings at 800°C for 3 hours. A st of microsections showed that no carburization of the surface of the specimens had occurred. Compression was carried out in an Amsler press. In order to avoid bending of the specimen, a sleeve was used, which was lined with heat insulators, and supporting plates made from steel 40KhN, 35 x 6 mm. The surface of the supporting plates was polished and the ends of the specimen ground. Compression was carried out in stages. Deformation was carried out statically at a rate of 5% per minute. This made it

Card 1/5 possible for the flow curve to be taken down by means of

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Absorption of Energy by Steel in Plastic Compression

of &Q the thermal capacity of the system was determined, as well as the rise in temperature due to plastic deformation. Special precautions were taken to prevent errors. The temperature calculation was carried out by a method suggested by M.A. Bol'shanina (Ref.7) and perfected by Benyakovskiy (Ref. 8). The latter obtained the following formula for the differential temperature;

tial temperature:  $S_{\frac{1}{2}} = T_{\frac{1}{2}} + (T_{\frac{3}{2}} - T_{\frac{3}{2}}) = \Delta T - T_{\frac{1}{6}}$ 

where  $T_1$  (see Fig.1) is the maximum temperature of the specimen towards the end of plastic deformation. second term takes into account a correction for heat removal during deformation. This correction is proportional to the area  $\bar{S}_1$ .  $(T_2 - T_3)/S_3 = \alpha$  is a constant for the rate at which the temperature of the system and the medium evens out. The third term gives a correction for a possible unsteady galvanometer reading and an uneven heating of the system. The last term gives a correction for an Card 3/5 elastic adiabatic heating.  $\Delta T$  and  $T_e$  are calculated from

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Absorption of Energy by Steel in Plastic Compression

the following equations:

$$[(T_1 - \Delta T) - T_2] s_2^{-1} = [T_2 - T_3] s_3^{-1},$$

$$T_e = T_3 - T_4 - [(T_2 - T_3)S_3^{-1}]S_4$$

The above formulae can be simplified as follows:

$$T = T_2 + \alpha(S^{\dagger} + S^{\dagger}) - (T_3 - T_4);$$

$$\propto \pm (T_2 - T_3)S_3^{-1};$$
  $S' = S_1 + S_2;$   $S'' = S_4$ 

which was used as the working formula by means of which the temperature of the specimen and of the experimental steel plates was calculated. For each stage  $\delta A$ ,  $\delta E$  and  $\Delta \varepsilon$  were determined, and the stress  $\sigma$  and the full deformation  $\varepsilon$  were known. This enabled various graphs to be plotted. Card 4/5 In Fig.2, curves for the differential absorbed specific energy

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